cluster k3 k=1, N=651, silhouette=0.443
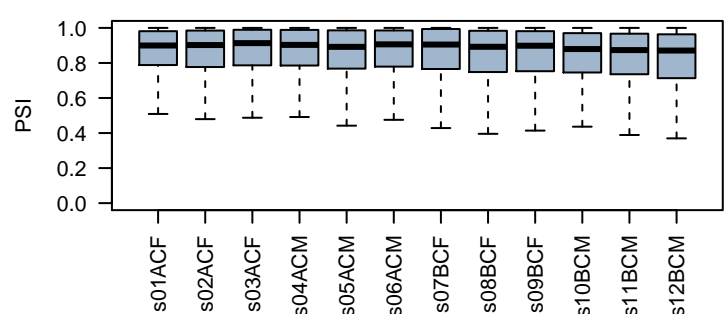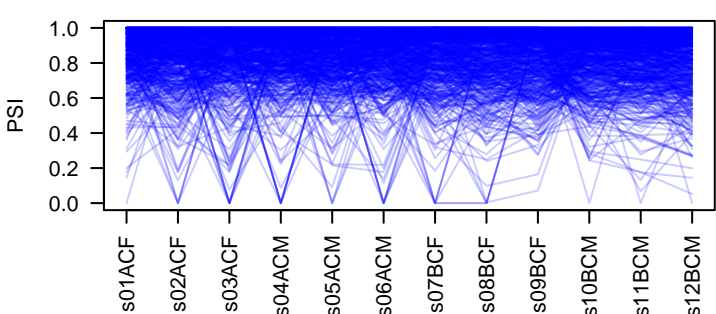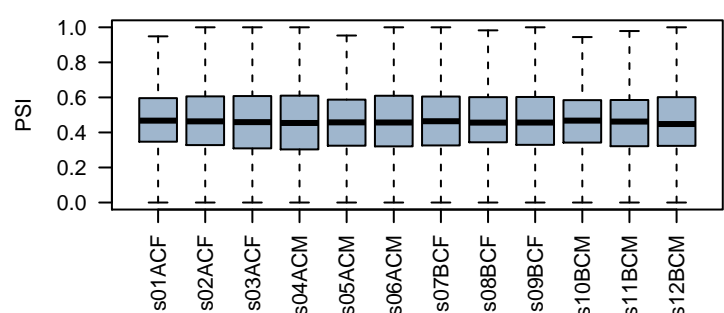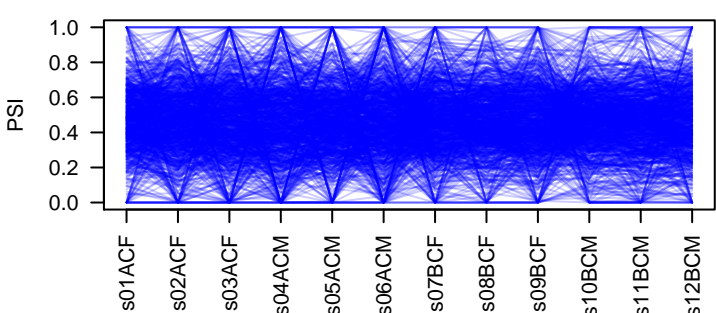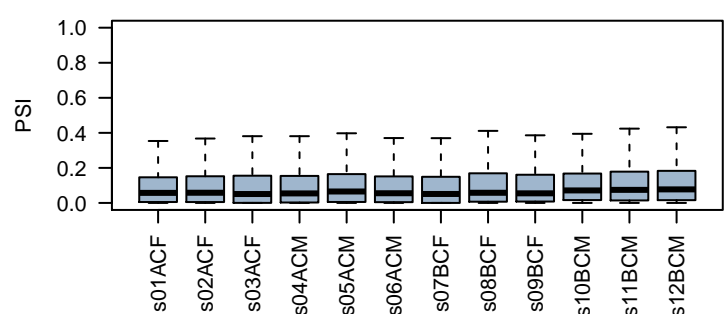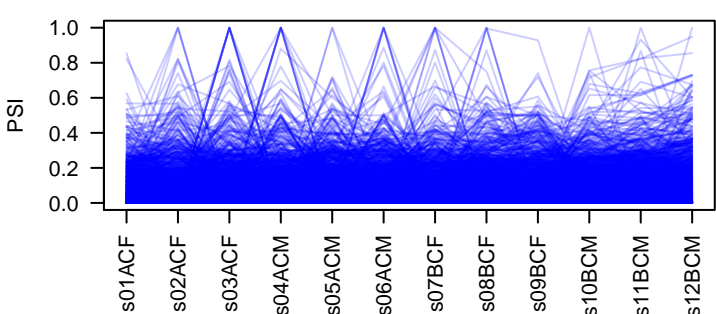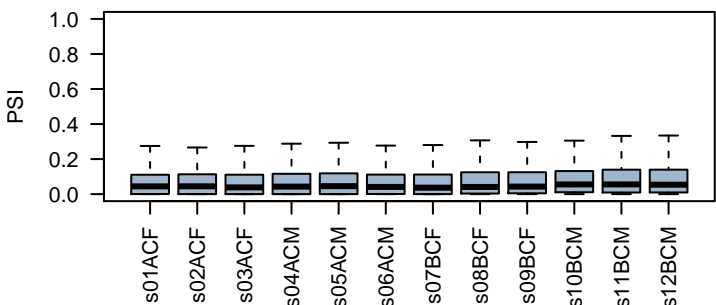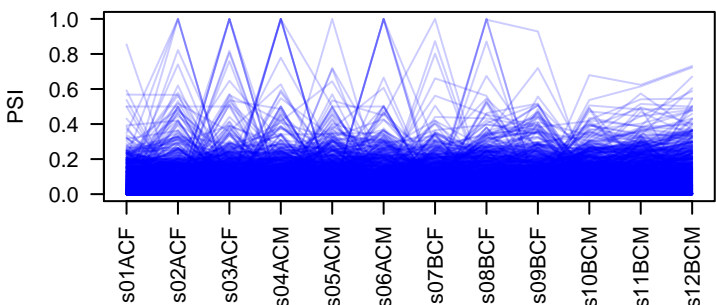
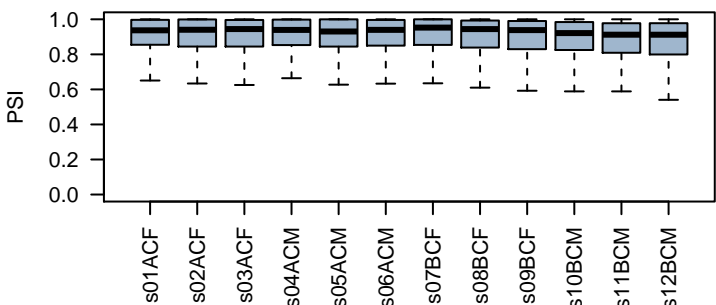**cluster k3 k=2, N=832, silhouette=0.443**
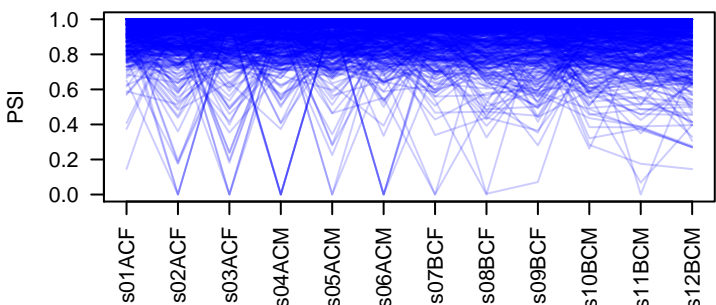
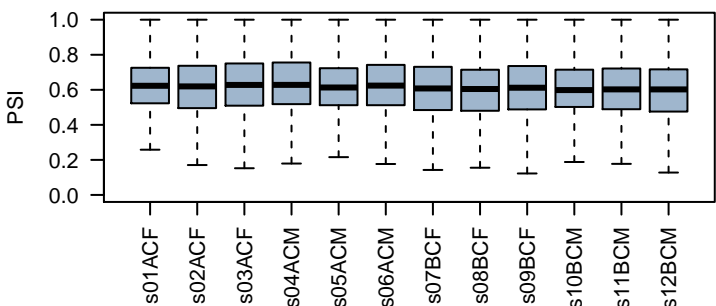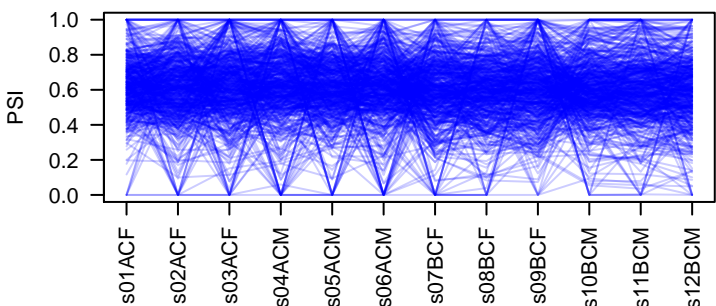**cluster k3 k=3, N=1193, silhouette=0.443**

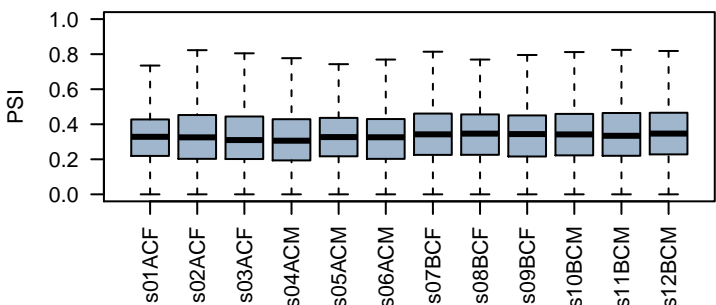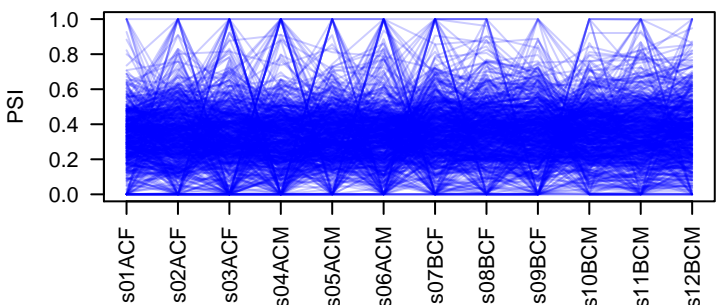**cluster k4 k=1, N=1011, silhouette=0.383**

cluster k4 k=2, N=490, silhouette=0.383
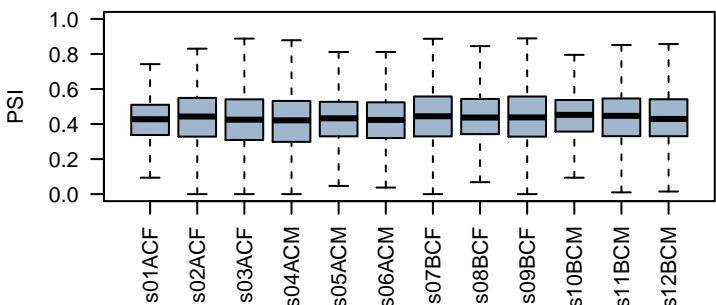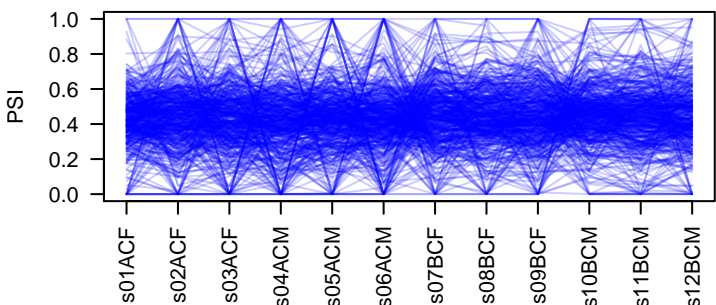
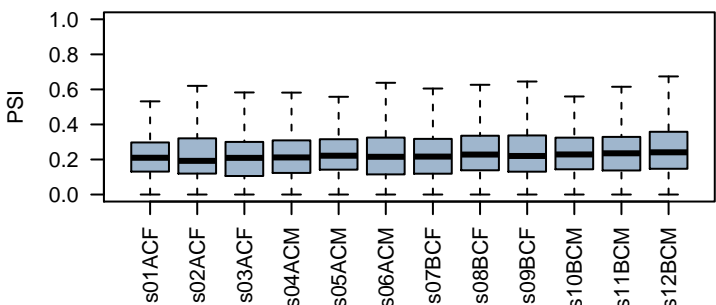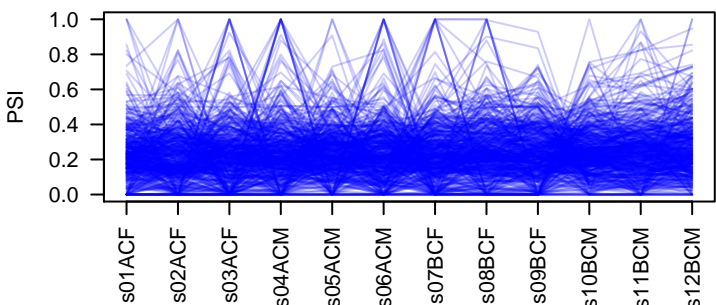**cluster k4 k=3, N=535, silhouette=0.383**
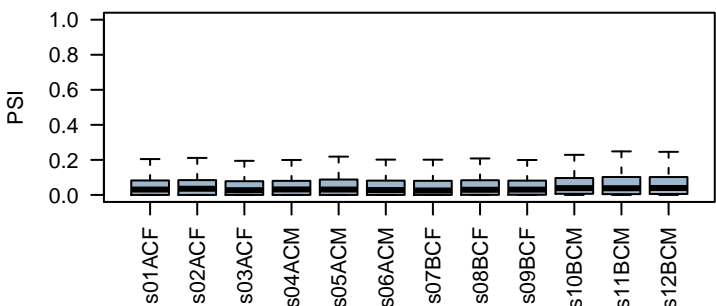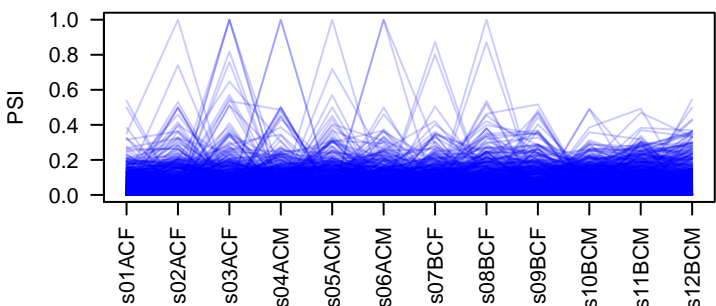
cluster k4 k=4, N=640, silhouette=0.383

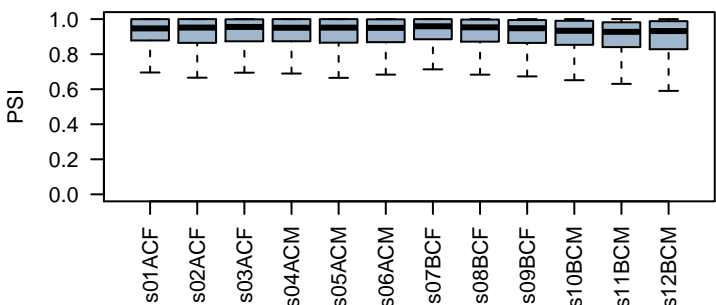**cluster k5 k=1, N=460, silhouette=0.319**

cluster k5 k=2, N=490, silhouette=0.319

cluster k5 k=3, N=836, silhouette=0.319

cluster k5 k=4, N=433, silhouette=0.319
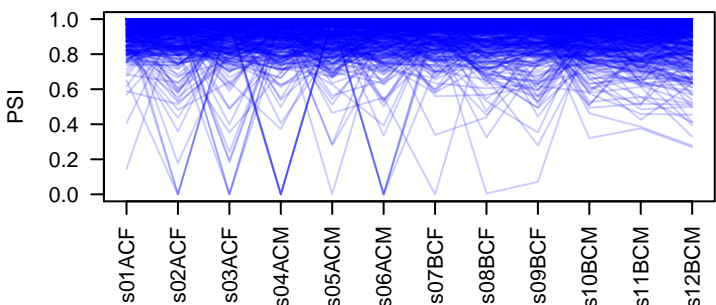
cluster k5 k=5, N=457, silhouette=0.319

cluster k6 k=1, N=332, silhouette=0.289

cluster k6 k=2, N=295, silhouette=0.289

cluster k6 k=3, N=410, silhouette=0.289

cluster k6 k=4, N=373, silhouette=0.289
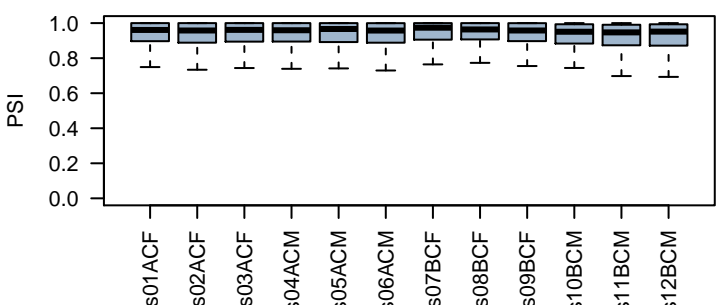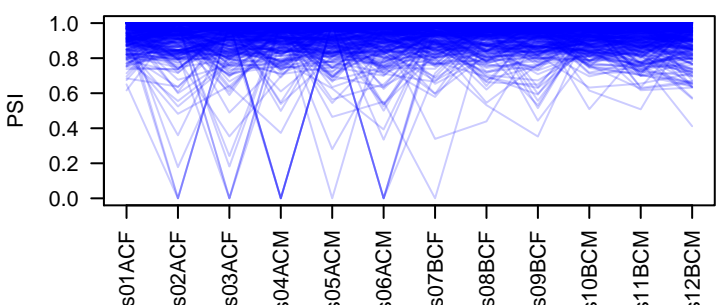
cluster k6 k=5, N=453, silhouette=0.289
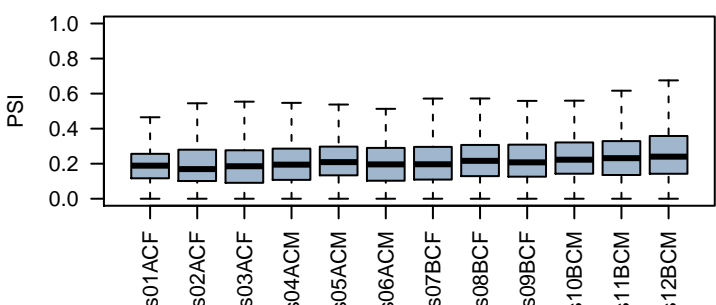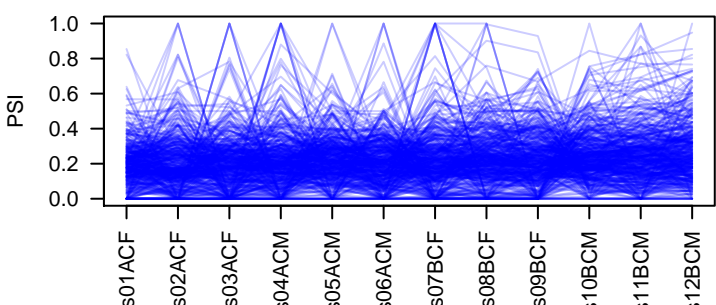
cluster k6 k=6, N=813, silhouette=0.289
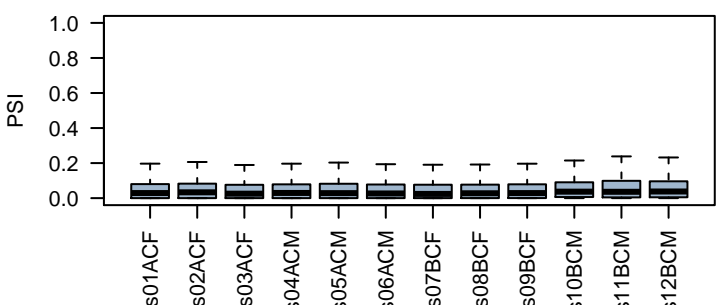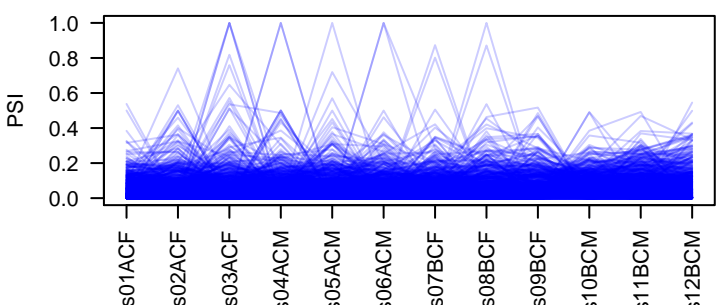
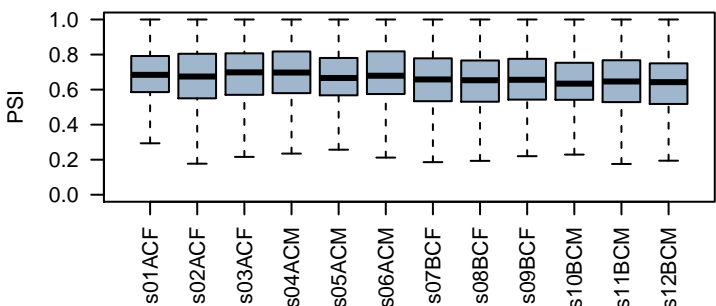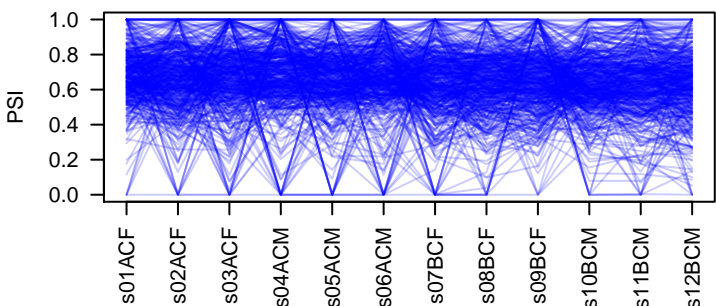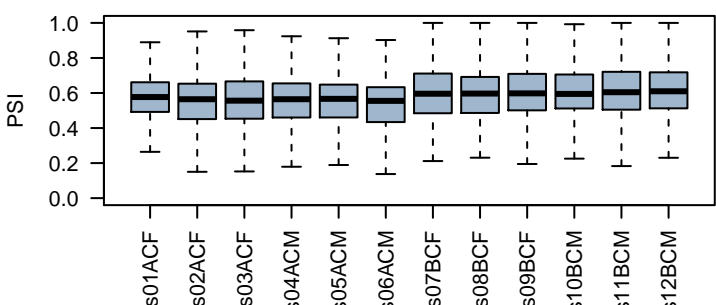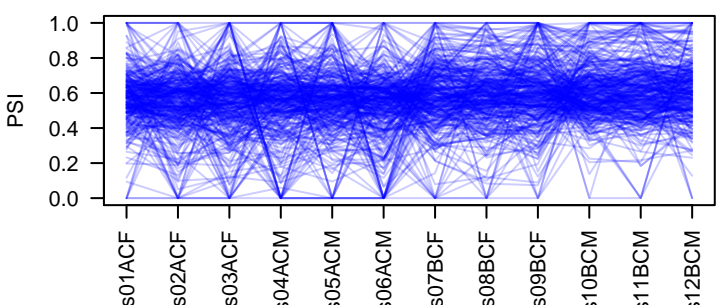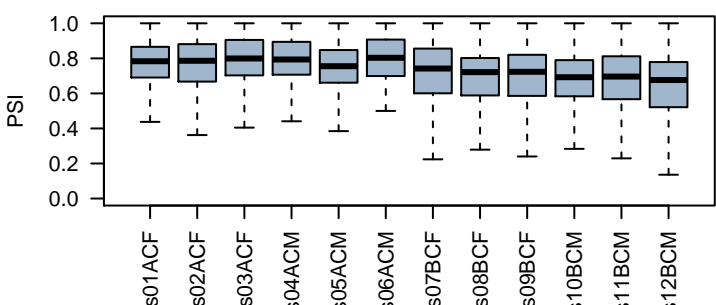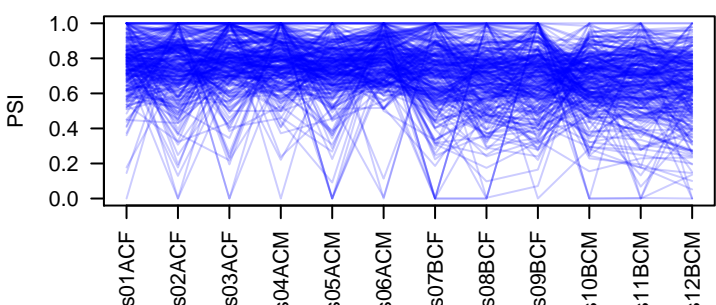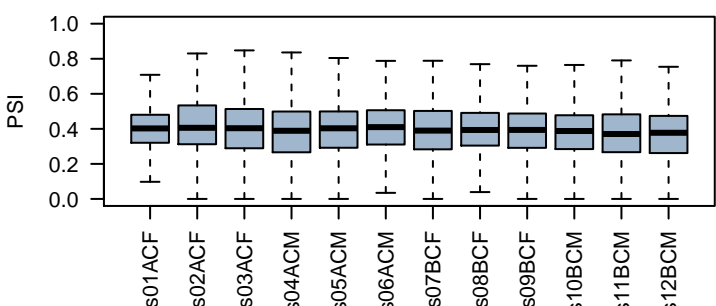**cluster k7 k=1, N=367, silhouette=0.265**

cluster k7 k=2, N=433, silhouette=0.265
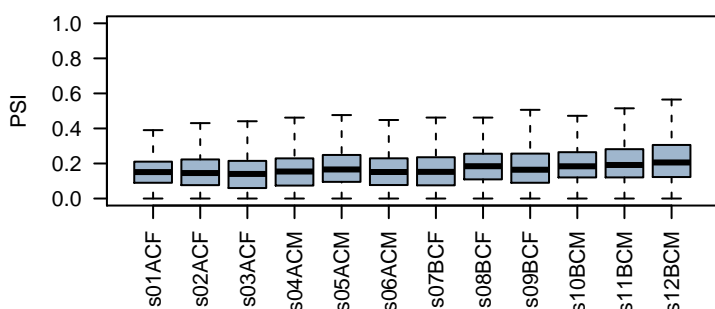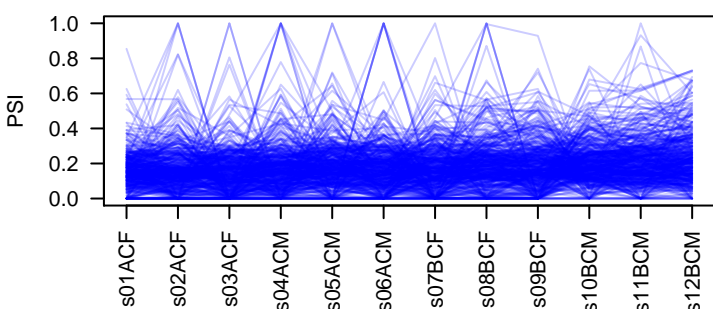
cluster k7 k=3, N=284, silhouette=0.265
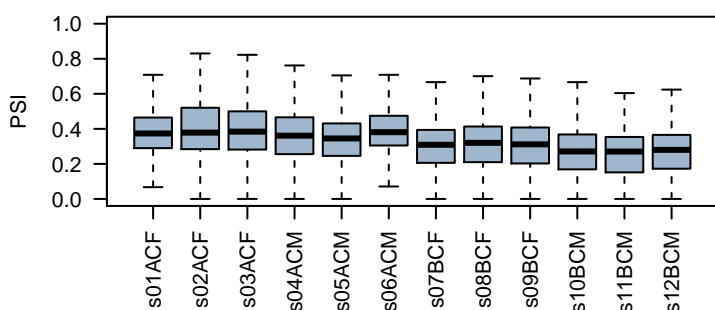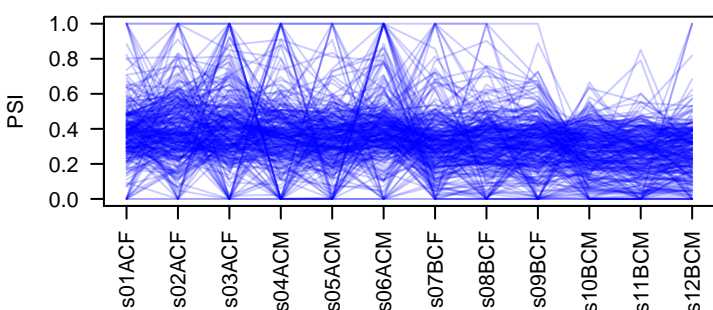
cluster k7 k=4, N=334, silhouette=0.265
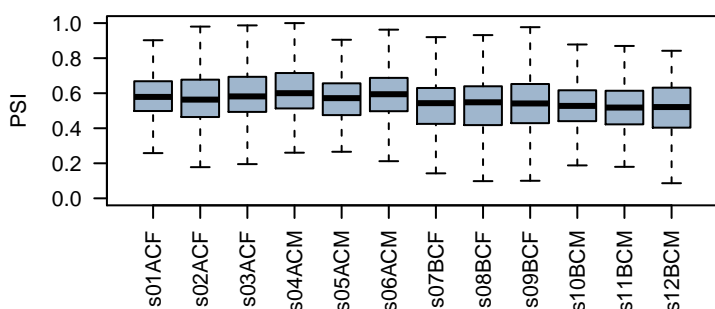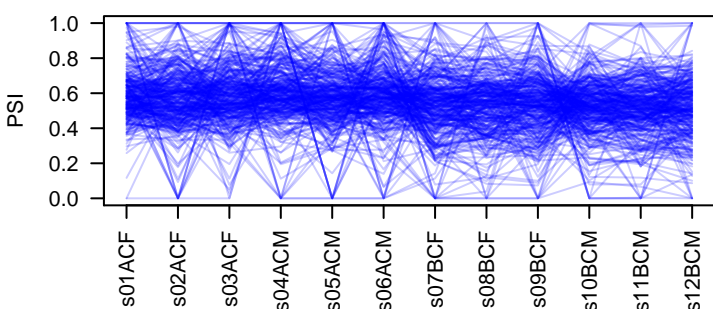
cluster k7 k=5, N=709, silhouette=0.265
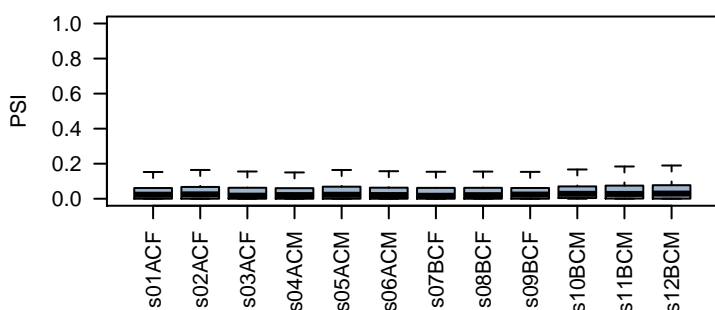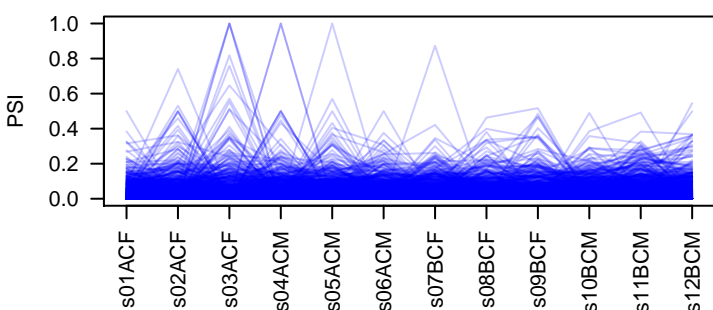
cluster k7 k=6, N=320, silhouette=0.265
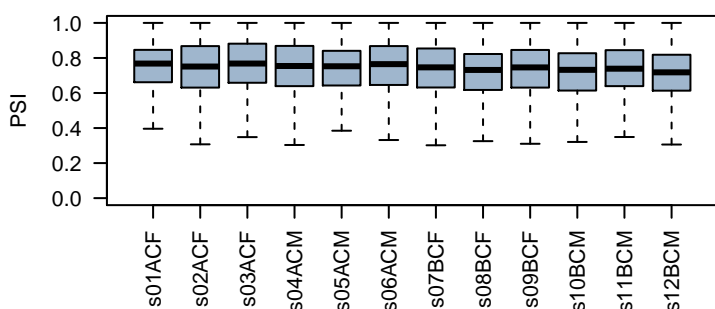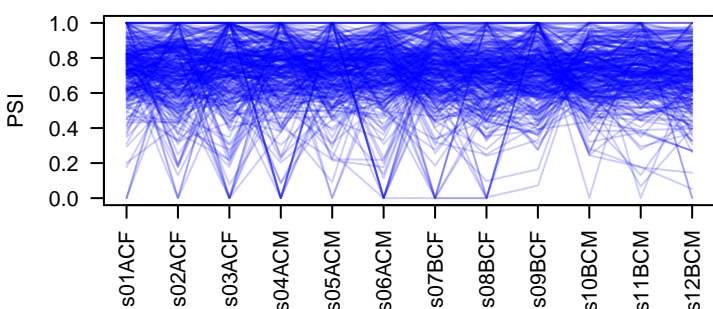
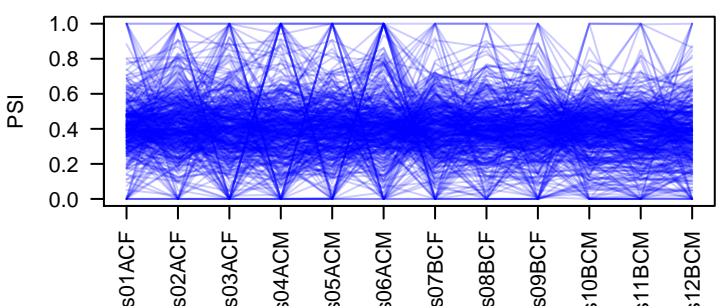**cluster k7 k=7, N=229, silhouette=0.265**
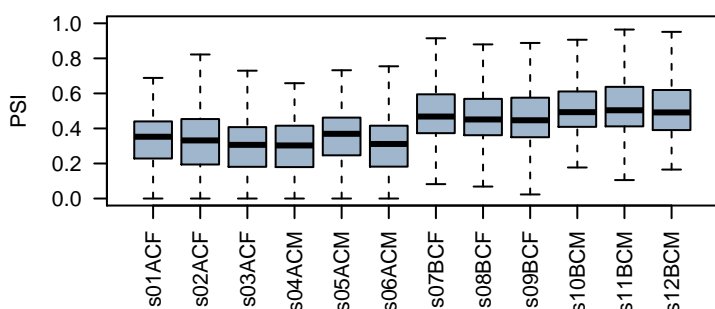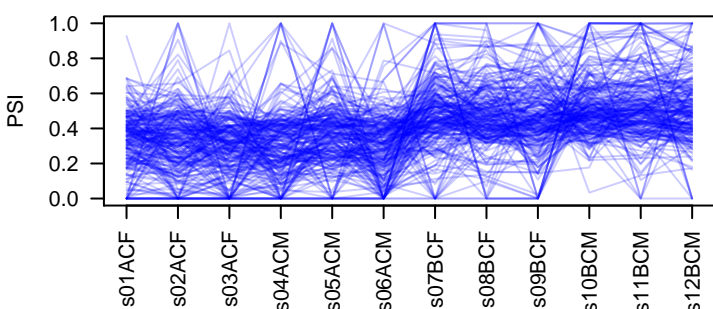
cluster k8 k=1, N=432, silhouette=0.237
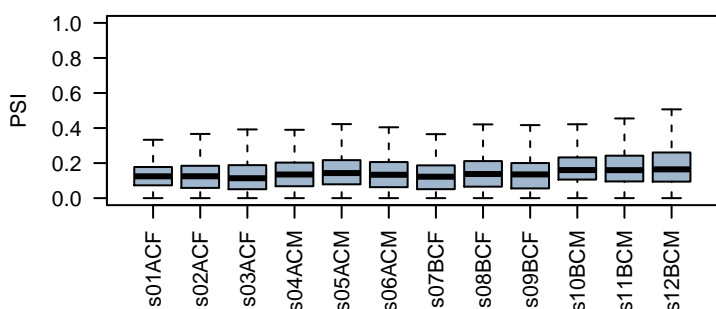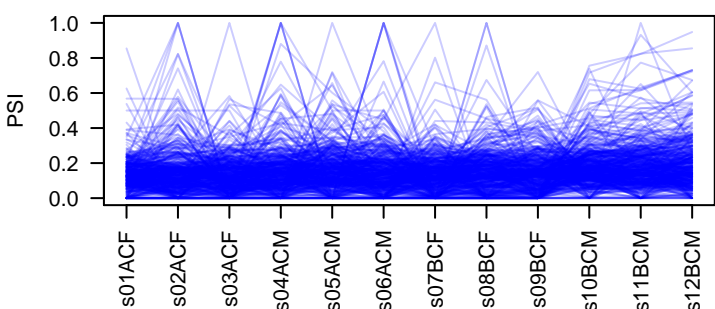
cluster k8 k=2, N=323, silhouette=0.237
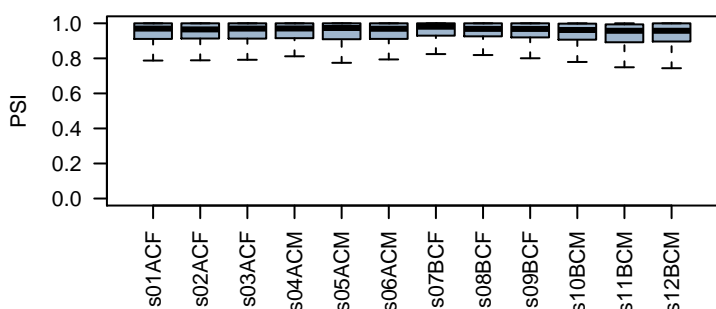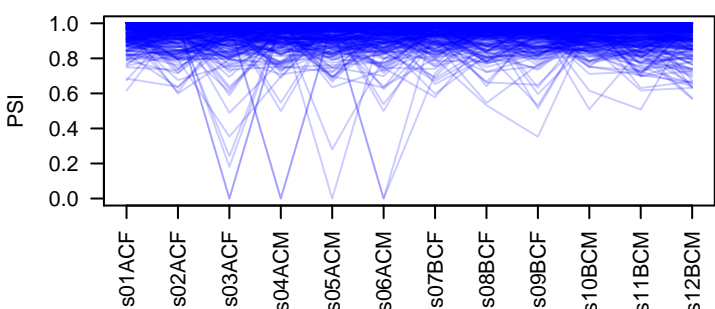
cluster k8 k=3, N=314, silhouette=0.237
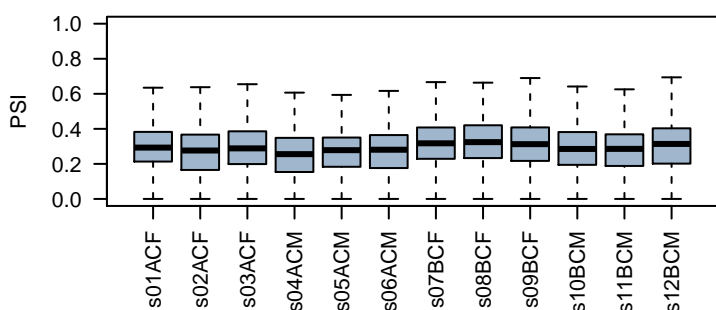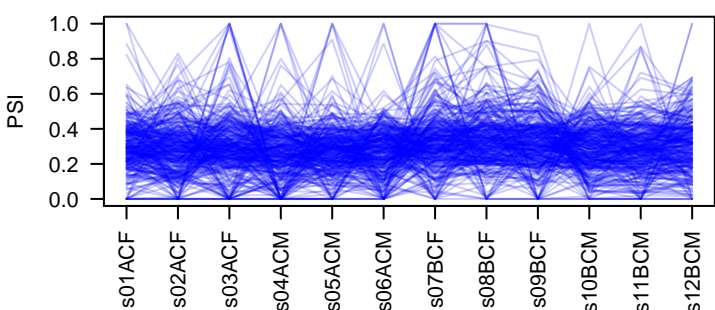
cluster k8 k=4, N=625, silhouette=0.237
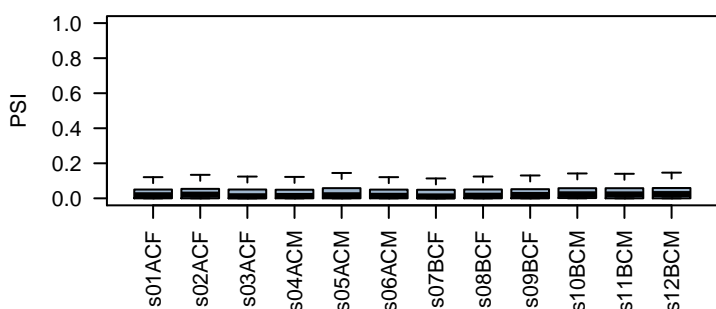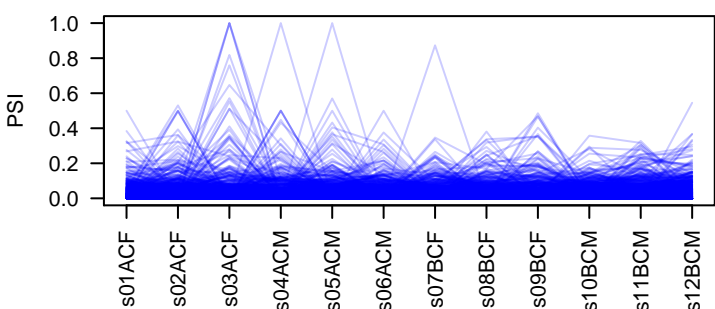
cluster k8 k=5, N=256, silhouette=0.237
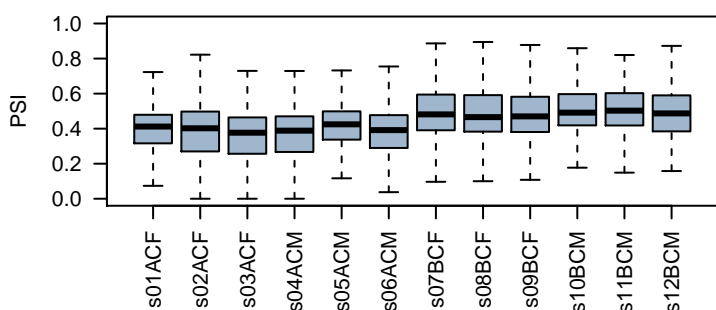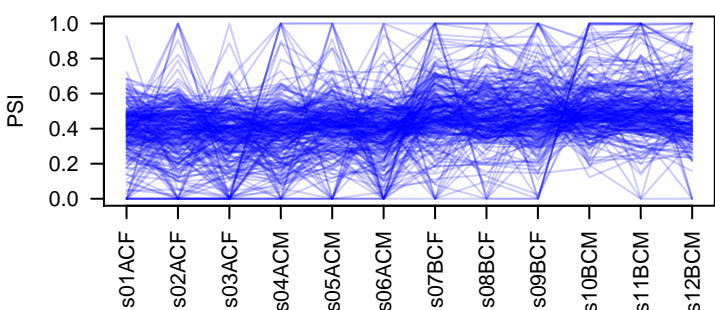
cluster k8 k=6, N=342, silhouette=0.237
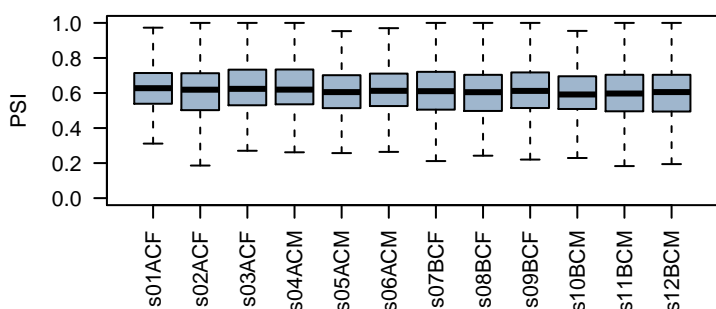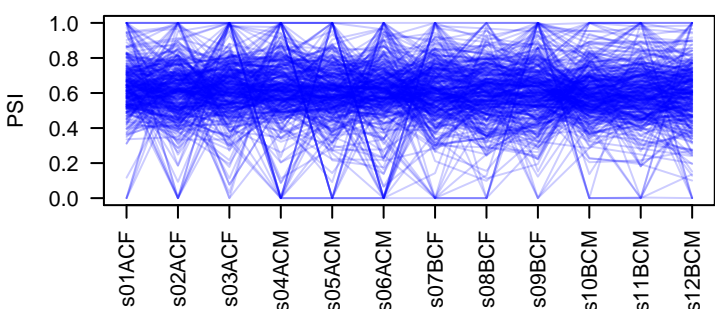
cluster k8 k=7, N=259, silhouette=0.237
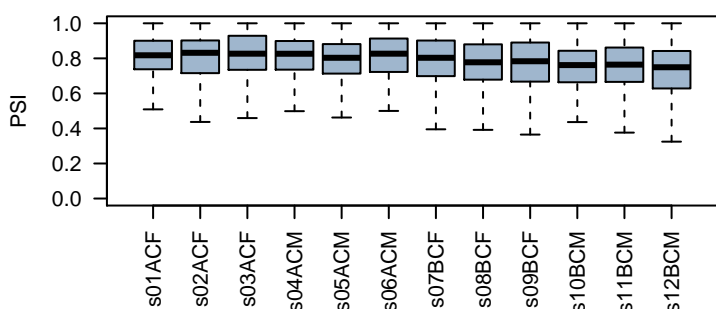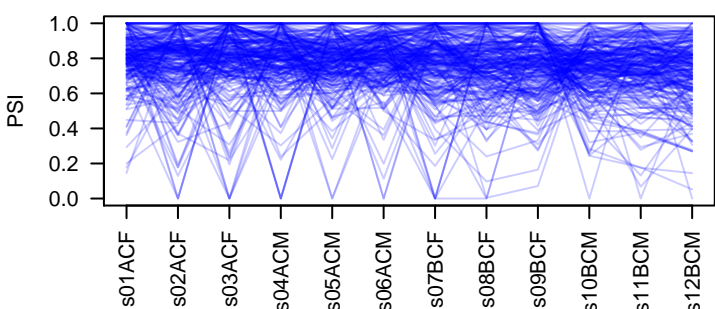
cluster k8 k=8, N=125, silhouette=0.237
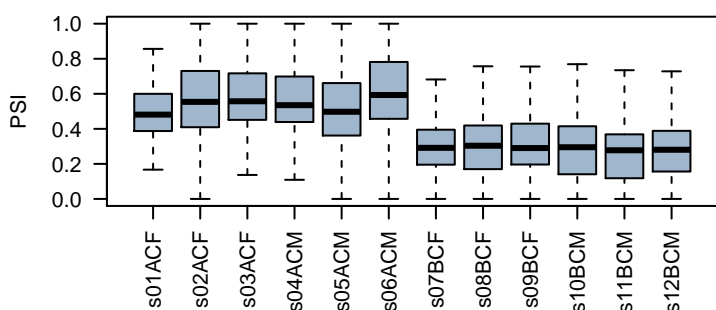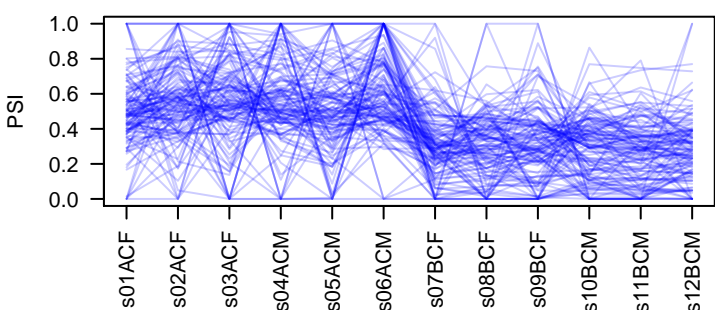
cluster k9 k=1, N=191, silhouette=0.25
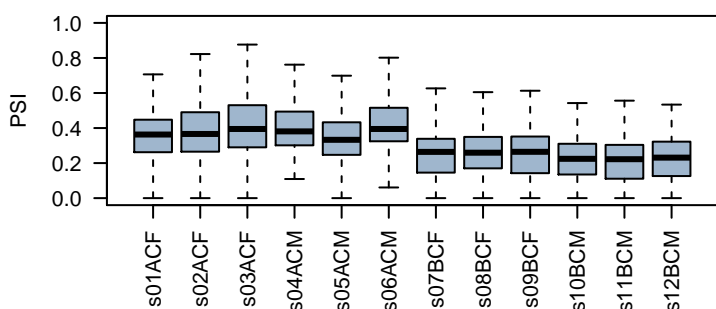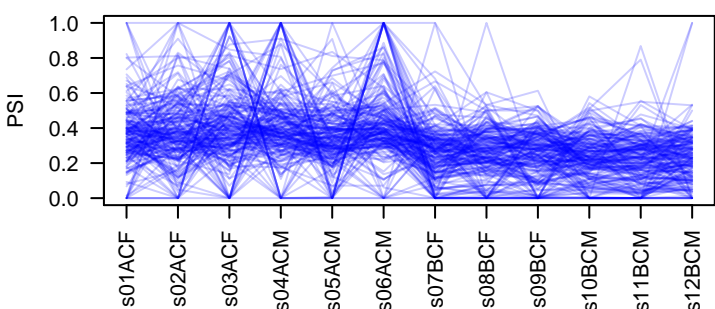
cluster k9 k=2, N=342, silhouette=0.25
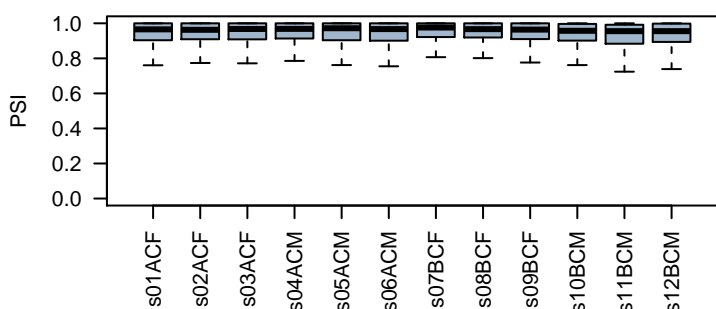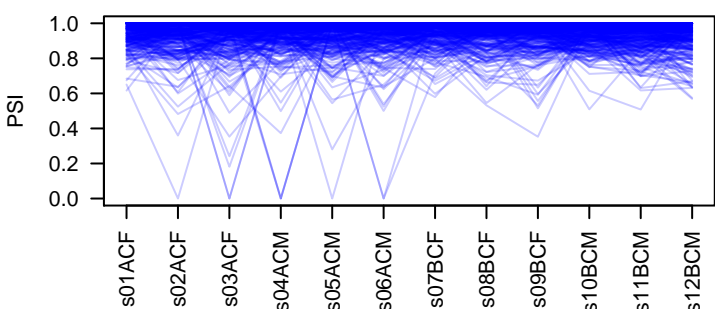
cluster k9 k=3, N=656, silhouette=0.25
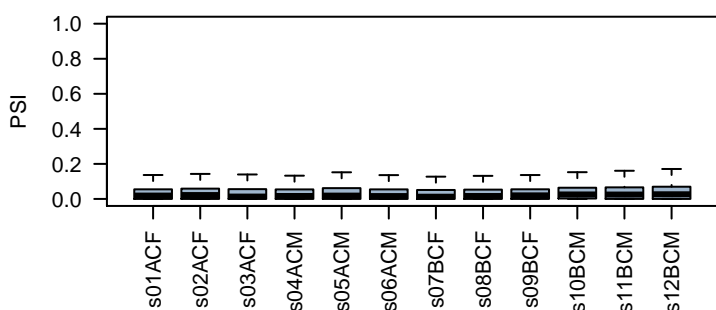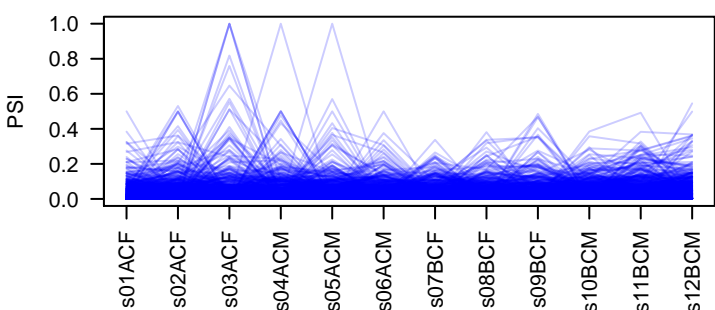
cluster k9 k=4, N=422, silhouette=0.25
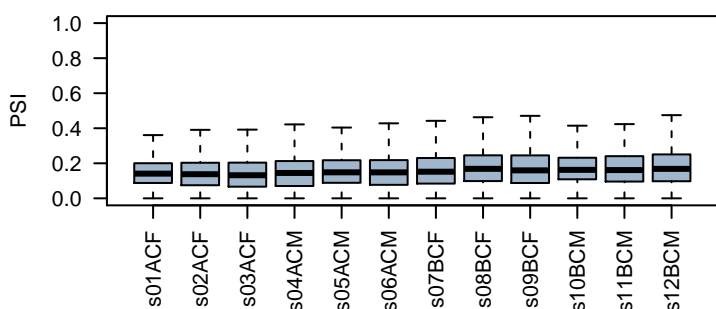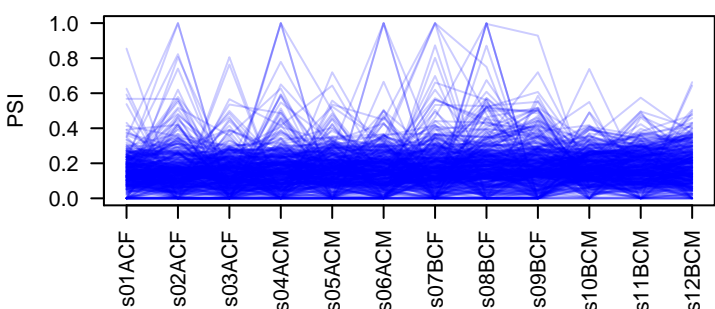
cluster k9 k=5, N=273, silhouette=0.25
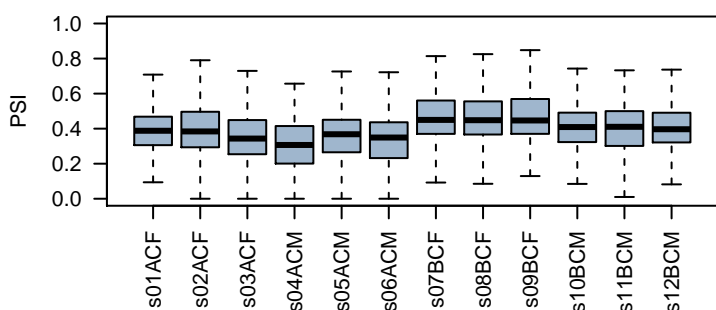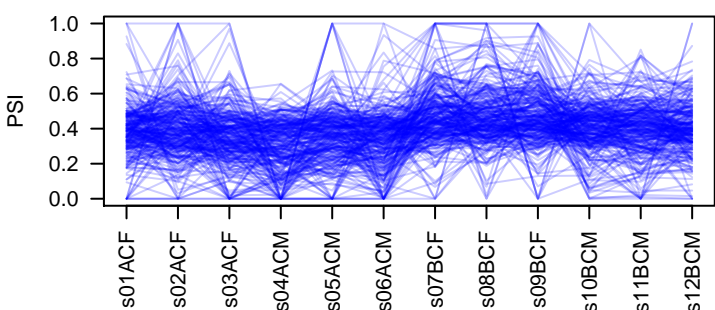
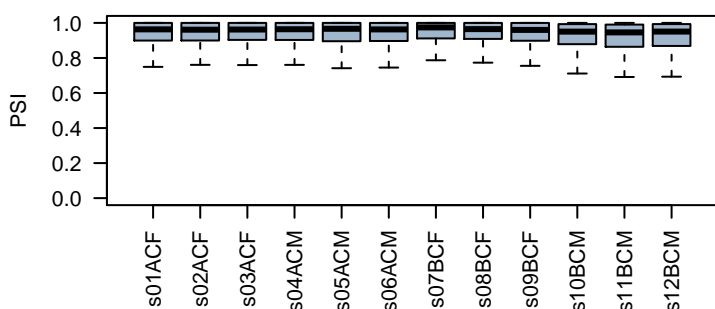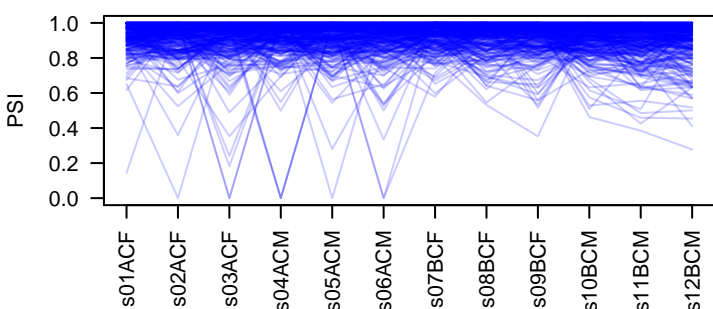cluster k9 k=6, N=105, silhouette=0.25
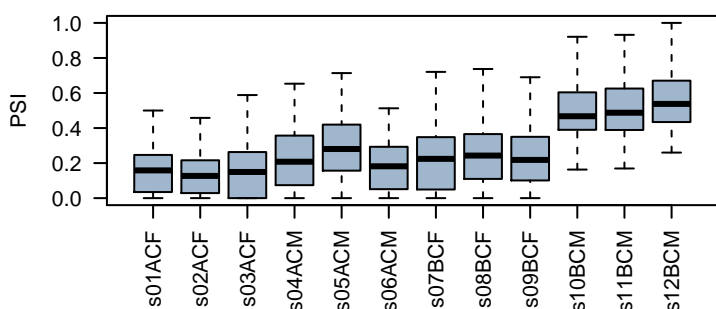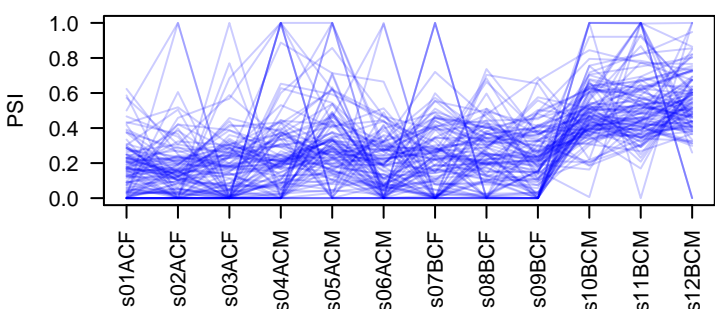
cluster k9 k=7, N=273, silhouette=0.25
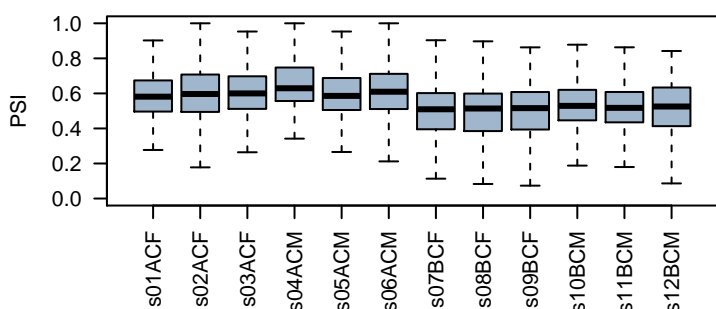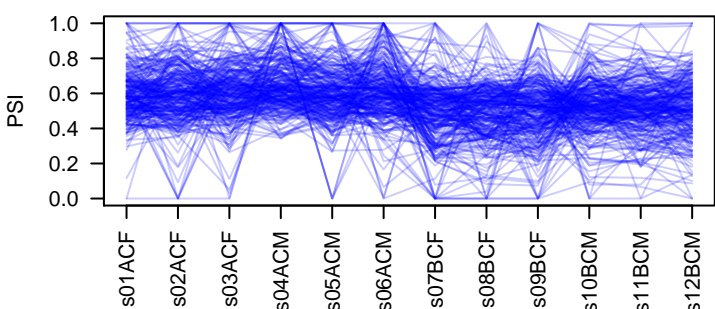
cluster k9 k=8, N=257, silhouette=0.25
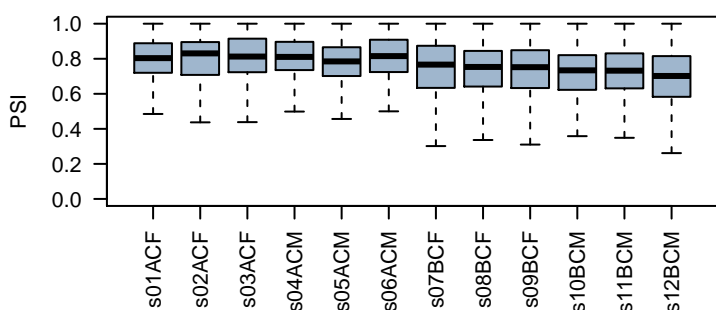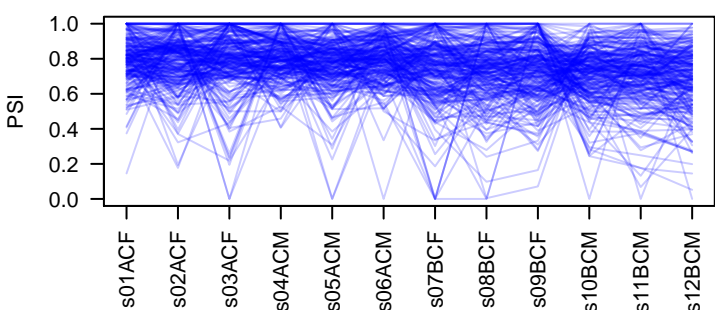
cluster k9 k=9, N=157, silhouette=0.25

cluster k10 k=1, N=687, silhouette=0.245

cluster k10 k=2, N=305, silhouette=0.245

cluster k10 k=3, N=222, silhouette=0.245

cluster k10 k=4, N=67, silhouette=0.245

cluster k10 k=5, N=422, silhouette=0.245

cluster k10 k=6, N=262, silhouette=0.245

cluster k10 k=7, N=231, silhouette=0.245

cluster k10 k=8, N=94, silhouette=0.245

cluster k10 k=9, N=93, silhouette=0.245

cluster k10 k=10, N=293, silhouette=0.245
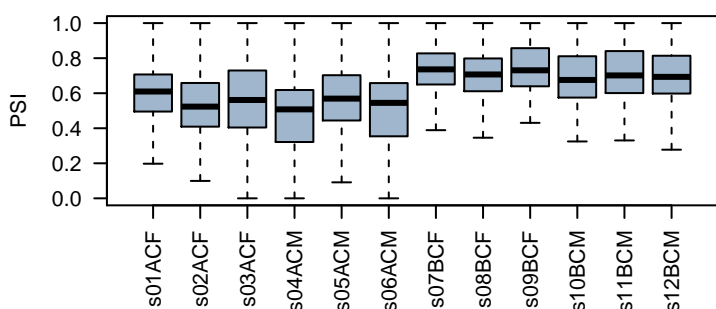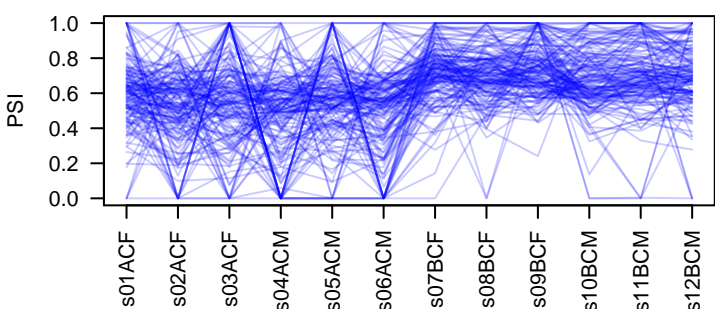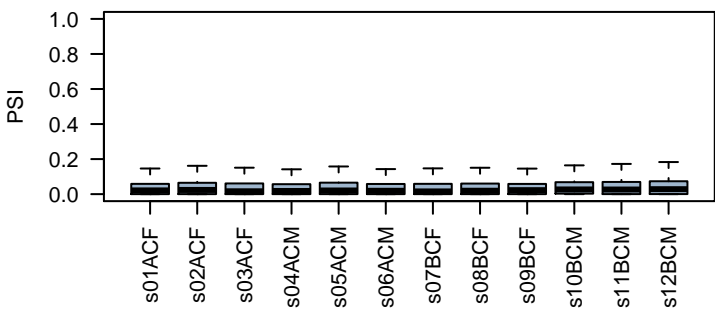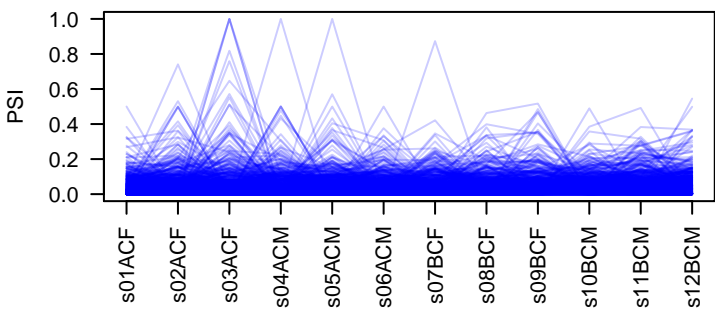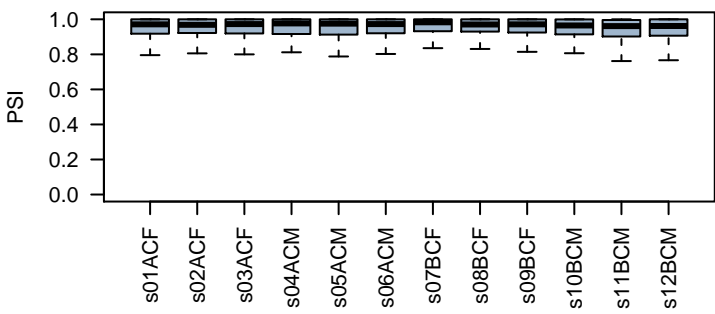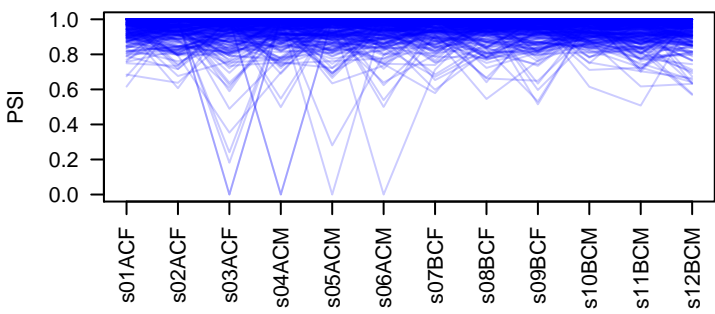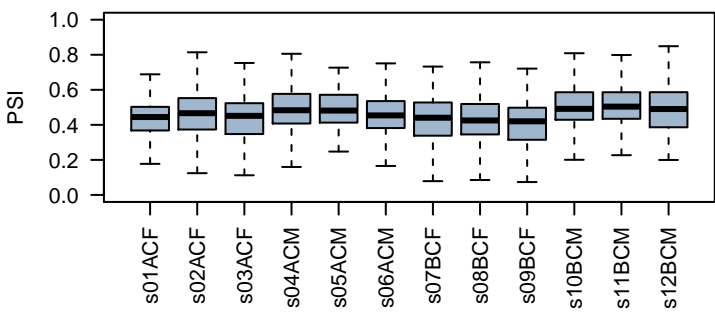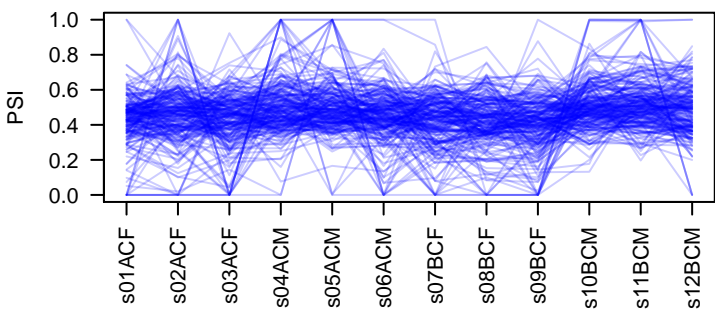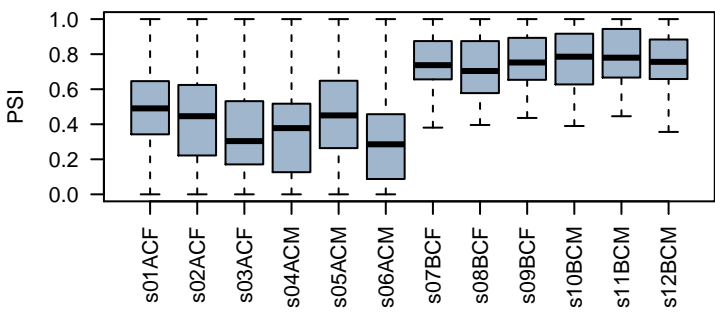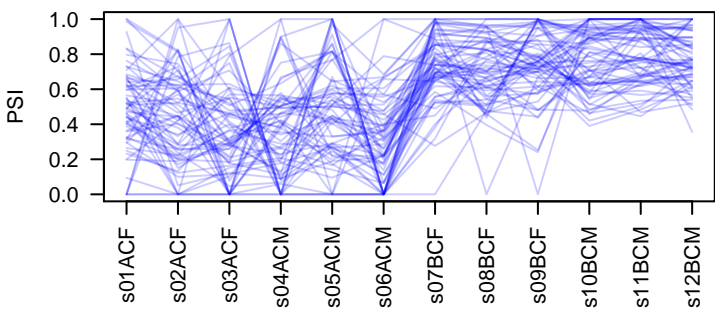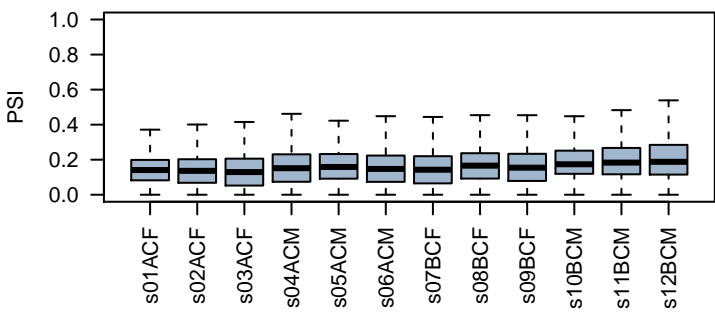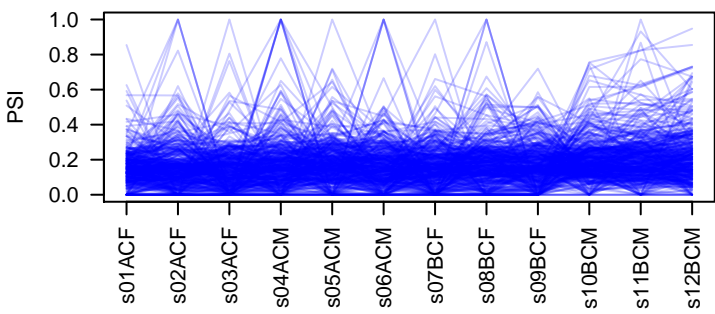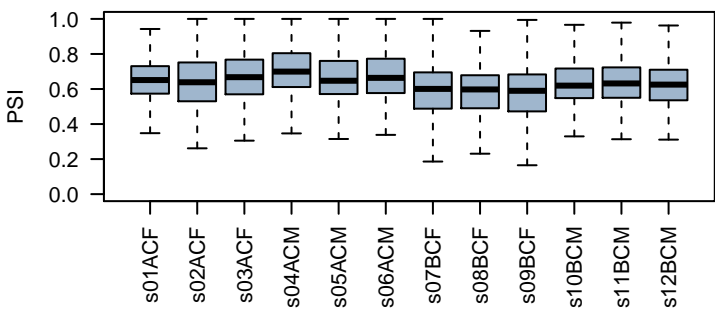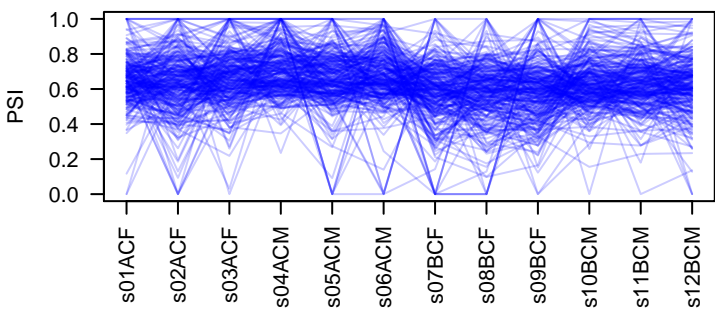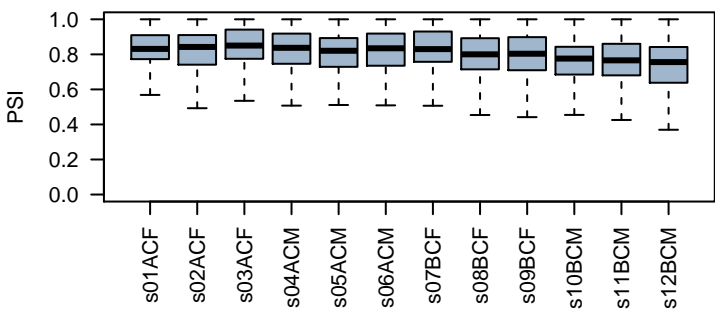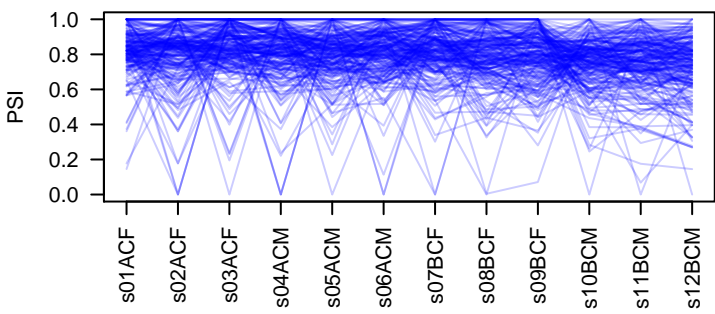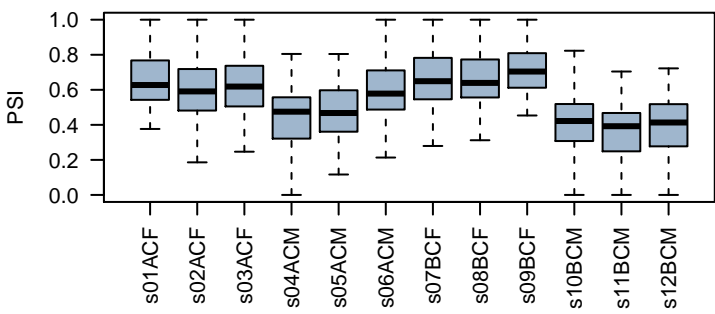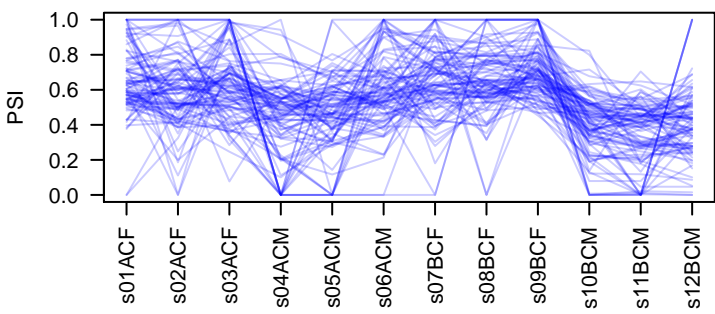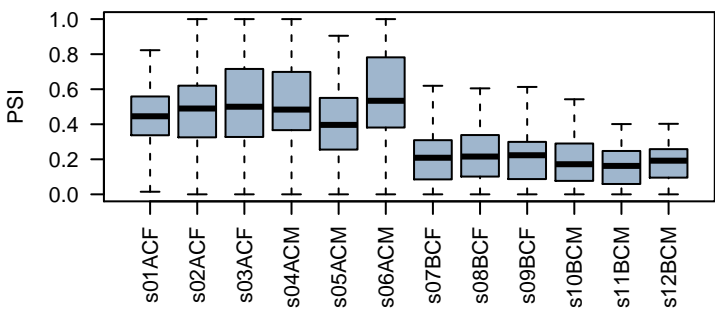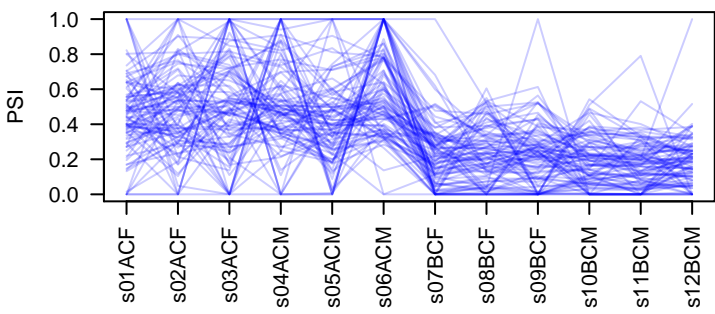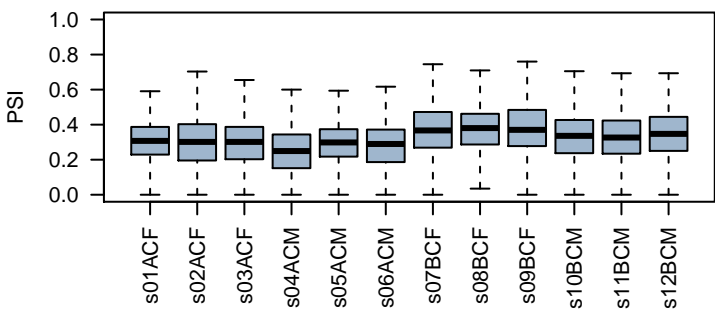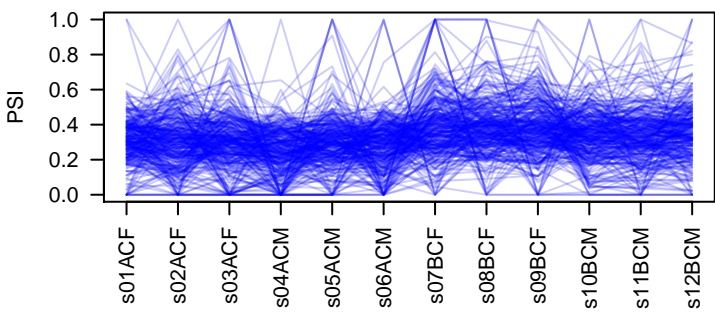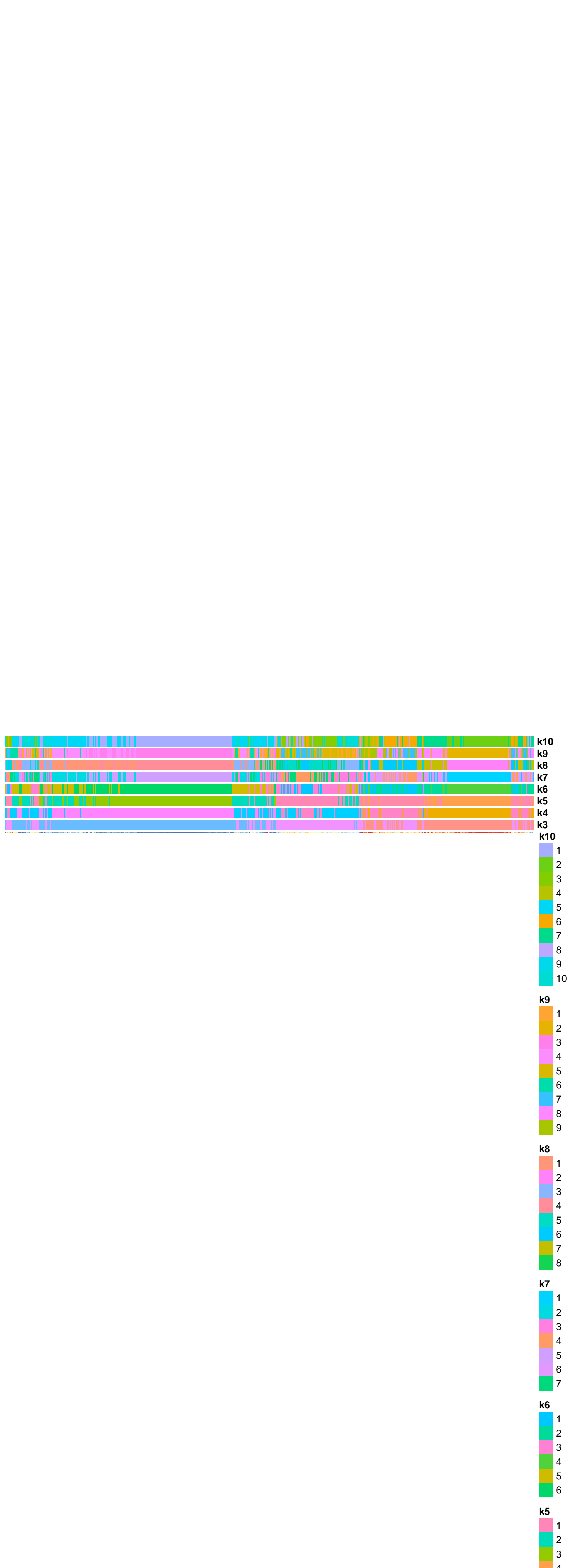
k10
1
2
3
4
5
6
7
8
9
10

k9
1
2
3
4
5
6
7
8
9

k8
1
2
3
4
5
6
7
8

k7
1
2
3
4
5
6
7

k6
1
2
3
4
5
6

k5
1
2
3

	ki	kj	Rand index
1	k3	k3	1.0000000
2	k3	k4	0.6279956
3	k3	k5	0.5343343
4	k3	k6	0.5374536
5	k3	k7	0.4878337
6	k3	k8	0.4129982
7	k3	k9	0.4344343
8	k3	k10	0.4180748
9	k4	k3	0.6279956
10	k4	k4	1.0000000
11	k4	k5	0.6617757
12	k4	k6	0.6318552
13	k4	k7	0.5575274
14	k4	k8	0.5410805
15	k4	k9	0.5159404
16	k4	k10	0.5188040
17	k5	k3	0.5343343
18	k5	k4	0.6617757
19	k5	k5	1.0000000
20	k5	k6	0.7981723
21	k5	k7	0.6298741
22	k5	k8	0.5780752
23	k5	k9	0.5564415
24	k5	k10	0.5988122
25	k6	k3	0.5374536
26	k6	k4	0.6318552
27	k6	k5	0.7981723
28	k6	k6	1.0000000
29	k6	k7	0.6888062
30	k6	k8	0.6064298
31	k6	k9	0.6348418
32	k6	k10	0.6220384
33	k7	k3	0.4878337
34	k7	k4	0.5575274
35	k7	k5	0.6298741
36	k7	k6	0.6888062
37	k7	k7	1.0000000
38	k7	k8	0.6886159
39	k7	k9	0.7724236
40	k7	k10	0.7397105
41	k8	k3	0.4129982
42	k8	k4	0.5410805
43	k8	k5	0.5780752
44	k8	k6	0.6064298
45	k8	k7	0.6886159
46	k8	k8	1.0000000
47	k8	k9	0.7302578
48	k8	k10	0.7447402
49	k9	k3	0.4344343
50	k9	k4	0.5159404
51	k9	k5	0.5564415
52	k9	k6	0.6348418
53	k9	k7	0.7724236
54	k9	k8	0.7302578
55	k9	k9	1.0000000
56	k9	k10	0.7309030
57	k10	k3	0.4180748
58	k10	k4	0.5188040
59	k10	k5	0.5988122
60	k10	k6	0.6220384
61	k10	k7	0.7397105
62	k10	k8	0.7447402
63	k10	k9	0.7309030
64	k10	k10	1.0000000